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| **Student’s Name** | **Student’s ID** | **Group Number** | **Lecturer’s Name** |
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| **Question Number** | **I** | **II** | **III** | **IV** | **V** | **Total** |
| **Mark** |  |  |  |  |  |  |

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| **Question I: A. Choose the correct answer**  **(1) If and are both antiderivatives of the same function and , then can be**   1. **(b)**   **(c) (d)** |
| **(2) If then is**  **(a ) (b)**  **(c) (d)** |
| 1. **If and then equals**   **(a) 3 (b)-3**  **(c) (d) 0**  **B. Show that without computing the integrals.**    **Question II: Compute the area between the curve of and the axis on using the limit of Riemann sum and right-end points.**  **Question III: A. Prove the Integral Mean Value Theorem: if is a continuous function on then there is a number for which .**  **B. Find the value of that satisfies the Integral Mean Value Theorem for**  **on [0,3].**  **Question IV: Find  for**  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Question V: Compute the following integrals** |
| **(c)** **for** |

Good Luck ☺